ENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| gth | Breadth 5 | Depth 6 | 7 | 8 |
| | | | | |

BR-fol24 | 29-3-14

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191645

al No. 1st and final Bill

e of work Improvement of Asphalting to Vaishnavi Layout Roads in Ward No. 09 under KRIDL of Vidyaranyapura sub-Div

e of Contractor of nature of Agency

e of commencement of work D.O. Recorded : 29/03/14

| te | Full description, etc, of work 2 | Number 3 | Dimensions: Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Estimated Cost Rs: 10.00 Lakhs | | | | | | |
| | IDB.No : 009-14-000037 | | | | | | |
| | Work order.No : EE/DAP/BBMP/KRIDL/WO/448/13-14-07.21/14 | | | | | | |
| | Earthwork Excavation by manual means in hard soil in roadways average horizontal throw upto 2m and an average lift upto 0.50m, Excavated surface levelled at ends neatly dressed, the disposed earth to be levelled neatly after | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Loading of clods complete as per specifications. ℄ | | | | | | |
| | Qty vide MB 1916 P. 19518 | | | | | | |
| | It no. ① = 251.63 $m^3$ @ 90.72/$m^3$ | | | | | 22827.87 | |
| 2) | Removing of B.W. clods of drain and stacking | | | | | | |
| | Qty vide MB- 1916 P. 19518 | | | | | | |
| | It ② = 544.5 $m^2$ = @ 50.11/$m^2$. ℄ | | | | | 27284.90 | |
| 3) | Scarifying stone metal crust 50 mm. to 100 mm thick with picks and along with premix carpet/surface drains and stacking old serviceable material within lead of 100 m by manual means including cutting all lobes | | | | | | |

M. A
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...ial No. ..... Fro
...me of work .....
...me of Contractor of nature of Agency.....
...te of commencement of work.....

| ...ate | Full description, etc, of work | Numb |
|---|---|---|
| | 2 | 3 |
| | Charges complete as per spe | |
| 4) | Refixing of stone clods of | |
| 5) | Providing and laying spread | |

BOOK

| ons Breadth 5 | Depth 6 | Contents 7 | Reference to last Measureme 8 |
|---|---|---|---|
| ' Cahums. B | | | |
| mB 1916 P. 191518 | | | |
| 25.63 $m^3$ @ 90.72/$m^3$ | | | 22827.87 |
| stacking | | | |
| mB- 1916 P. 191518 | | | |
| $m^2$ = @ 50.11/$m^2$. B | | | 27284.90 |
| m. W 100 mm thick | | | |
| carpet/surface dressing | | | |
| renals with lead of | | | |
| using all labour | | | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191646

erial No. ..... From ..... To .....

ame of work .....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Number 3 | Dimensions Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | Charges complete as per specifications. | | | | | | |
| | Other side 1916 P. 191519 | | | | | | |
| | If no. (3) = 1812.50 $m^2$ @ 40.50/$m^2$ | | | | | 61256.25 | |
| | 4) Refixing of stone slabs of drains and pointing in CM(1):3 | | | | | | |
| | Off as per If no. (2) = 544.50 $m^2$ @ 70.04/$m^2$ | | | | | 38136.18 | |
| | 5) Providing and laying, spreading and compacting graded stone | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measure |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 7) Providing and applying primer coat with bitumen Emulsion on prepared surface of granular base including cleaning road surface and spraying primer at the rate of 0.60 kg/m² using mechanical means Complete as per Specifications | | | | | | |
| | | | Qty as per Th no ⑥ | | | | 66973.50 |
| | | | = 1512.55 m² @ 44.28/m² | | | | |
| | 8) providing and laying dense bituminous concrete 25mm thick with 100-120 TPH batch type Hmp producing an average output of 75t per hr using crushed aggregates | | | | | | |

| Date | Full description, etc, of work |
|---|---|
| | of specified grading, 4.5 to 5% of mix of bitumen, laying with hydrostatic to the required grade by wheeled vibratory and Compaction as per MoRTH |
| | 9) Vaishnavi Nagar cross Road - 1 |

(5M main Road)

MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| ...ed with bitumen Emulsion | | | | |
| ...e including clearing | | | | |
| ...ed at the rate of 0.60 kg/m2 | | | | |
| ...mplete as per Specifications | | | | |
| ...Qty as per Th no (6) | | | | 66973.50 |
| ...= 1512.50 m2 @ 44.28/m2 | | | | |
| ...se bituminous concrete | | | | |
| ...batch type dmp producing | | | | |
| ...per hr using crushed aggregates | | | | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191643

...erial No. .....
...ame of work ..... From ..... To .....
...ame of Contractor of nature of Agency.....
...ate of commencement of work.....

| Date | Full description, etc, of work | Number | Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | of Specified grading, premixed with bituminous binder at 4.5 to 5% of mix and laying with hydrostatic paver finisher with screed control to the required grade level and alignment, rolling with smooth wheeled vibratory and tandem Roller to achieve the desired Compaction as per morth specifications. With approved grade Bitumen | | | | | | |
| | 9) Vaishnavi South cross Road - 1 | 1 | 30.00 | 7.0+5.0 / 2 | 0.025 | 4.875 | |
| | (5th main Road 1) | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | (0.00 to 109.00m) | 1 | 30.00 | $\frac{5.8+5.6}{2}$ | 0.025 = | 4.28 | |
| | | 1 | 30.00 | $\frac{5.6+5.2}{2}$ | 0.025 | 4.05 | |
| | (8th main Road) | 1 | 19.00 | $\frac{5.2+5.0}{2}$ | 0.025 | 2.42 | |
| (b) | Cross-Road-2 | | | | | | |
| | (0.00 to 90.00m) | 1 | 30.00 | $\frac{5.5+5.6}{2}$ | 0.025 | 4.28 | |
| | | 1 | 30.00 | $\frac{5.6+5.2}{2}$ | 0.025 = | 3.92 | |
| | | 1 | 30.00 | 5.20 | 0.025 = | 3.90 | |
| (c) | Cross-Road-3 | 1 | 30.00 | $\frac{6.8+5.5}{2}$ | 0.025 = | 4.61 | |
| | | 1 | 30.00 | $\frac{5.5+5.2}{2}$ | 0.025 = | 3.90 | |
| | patchwork | 1 | 16.80 | $\frac{3.8+4.1}{2}$ | 0.025 = | 1.66 | |
| | | | | | | 37.82 m³ | |

Clft.

Clft

Fig. 9. (contd.)

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rial No. .....
me of work .....
me of Contractor of nature of Agency.....
te of commencement of work.....

| ate | Full description, etc, of work | Numb |
|---|---|---|
| | 2 | 3 |
| 9) | Road marking with hot compound with reflectorising surface. providing thermoplastic compound reflectorising glass bead thickness of 2.5mm in level, uniformed line | |

MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| ength 4 | Breadth 5 | Depth 6 | 7 | 8 |
| 0.00 | $\frac{5.8+5.6}{2}$ | 0.025 = | 4.28 | |
| .00 | $\frac{5.6+5.2}{2}$ | 0.025 | 4.05 | |
| 9.00 | $\frac{5.2+5.0}{2}$ | 0.025 | 2.42 | |
| 0.00 | $\frac{5.5+5.6}{2}$ | 0.025 | 4.28 | |
| 0.00 | $\frac{5.6+5.2}{2}$ | 0.025 = | 3.92 | |
| 0.00 | 5.20 | 0.025 = | 3.90 | |
| 0.00 | $\frac{6.8+5.5}{2}$ | 0.025 = | 4.61 | |
| 0.00 | $\frac{5.5+5.2}{2}$ | 0.025 = | 3.90 | |
| 6.80 | $\frac{3.8+4.1}{2}$ | 0.025 = | 1.66 | |
| | | | 37.824 | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191649

ial No. .....

me of work ..... From ..... To .....

me of Contractor of nature of Agency.....

e of commencement of work.....

| ate | Full description, etc, of work 2 | Number 3 | Dimensions Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | | L+W = | | | 37.81 m | 364164.75 |
| | | | | | | 9631.44 m² | |
| 97 | Road marking with hot applied thermoplastic Compound with reflect rising glass beads on bitumi inous surface. providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gm per sqmeter thickness of 2.5 mm is exclusive of level, uniformed free from streaks, | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Complete as per Specifications and directions of Engineer in-charge of Work. | | | | | | |
| | (a) CROSS - Road - ① | 2 | 3 | 30.00 | 0.10 | - 18.00 | |
| | | 2 | 2 | 19.00 | 0.10 | - 7.60 | |
| | (b) CROSS - Road ② | 2 | 3 | 30.00 | 0.10 | - 18.00 | |
| | (c) CROSS - Road ③ | 2 | 2 | 30.00 | 0.10 | - 12.00 | |
| | | | | | | 55.60 m² | C/F |
| | | | | | L.S.W | 55.60 m² | 29/7 |
| | | | | | | @ 471.96/m² | 25958.00 |
| | 10) Load charges for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading etc complete as per | | | | | | |

Material No. .....
Name of work .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

| Date | Full description, etc, of work | |
|---|---|---|
| | 2 | |
| | Specifications and Work. | d |

d-0
29/03/

MENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| ength 4 | Breadth 5 | Depth 6 | 7 | 8 |
| ed | directory | Engineer | | |
| 30.00 | 0.10 | - | 18.00 | |
| 19.00 | 0.10 | - | 7.60 | |
| 30.00 | 0.10 | - | 18.00 | |
| 30.00 | 0.10 | - | 12.00 | |
| | | | 55.60 mt | C&F 29/3 |
| | Unit | | 55.60 mt | |
| | | | @471.96/mt | 25958.00 |
| | | | | |
| | | | | |
| of debris shall be | | | | |
| by mechanical means in | | | | |
| etc complete as per | | | | |

M. A. R. 57 (Rule 116)
Measurement Book

No. B

191650

Serial No. ..... From ..... To .....

Name of work .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

| Date | Full description, etc, of work | Number | Dimensions: Length | Dimensions: Breadth | Dimensions: Depth | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Specifications and Works. | directions of Engineer-In-charge | | | | | |
| | | Qty as per It no. (1) = | | | | 251.63 mt | |
| | | Unit | | | | 213.88 mt | |
| | | | | | | @72.71/mt | 15,555 = 21 |
| | | | | | | Total B | 8,92,421.24 |
| | | Add 11% above charges | | | | | 98,166.34 |
| | | | | | | Grand Total | 9,90,587.58 |

do
29/03/14

C&F
29/3/14

ENT BOOK

| Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|
| gth | Breadth 5 | Depth 6 | 7 | 8 |
| | | | 8th main Road | → N |
| 90.0m | | | | |
| 09.40m | | | | |
| | | | CROSS-ROAD | |
| | 60.0m | | Towards Sampige Layout | |
| | | | Towards Vidyaranya Puram Main Road | |

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

191651

erial No. .....
ame of work ..... From ..... To .....
me of Contractor of nature of Agency.....
te of commencement of work.....

| Date | Full description, etc, of work 2 | Number 3 | Dimensions: Length 4 | Dimensions: Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 90580=00 | | | | IT – 19812 | | |
| | ಗಳನ್ನು ಪಾವ್ತಿ ಮಾಡಿದೆ: ಉಳಿದ ರೂ. 145032=00 | | | | 1st – 39623 | | |
| | ಮೊಂಜಾಗರೆ ಮಾಡಿರುವುದು ಇದೆ ಮೊಬಲಗು | | | | 2nd – 54482 | | |
| | ರೂ. 84558=00 | | | | Cwc – 9906 | | |
| | ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ | | | | OSR – 991 | | |
| | Krishnappa Ramappa | | | | Roy – 20218 | | |
| | ಲೆಕ್ಕಾಧಿಕಾರಿಗಳು | | | | TOTAL – 145032=00 | | |